

# TX-5260RGBWY250D180-001

## PRODUCT SPECIFICATION

### Features:

- ◆Excellent transiting heat from LED chip operating under 1.6 A.
- ◆Mixing any two colors of light, there will be no partial color and color spots uneven phenomenon.
- ◆High luminous output.
- ◆No UV.
- ◆Encapsulated materials are environmentally certified and meet environmental requirements.

### Chip Material:

- ◆Red: AlGaInP
- ◆Green: GaInN
- ◆Blue: GaN
- ◆White: GaN
- ◆Yellow: AlGaInP

### Emitting Color:

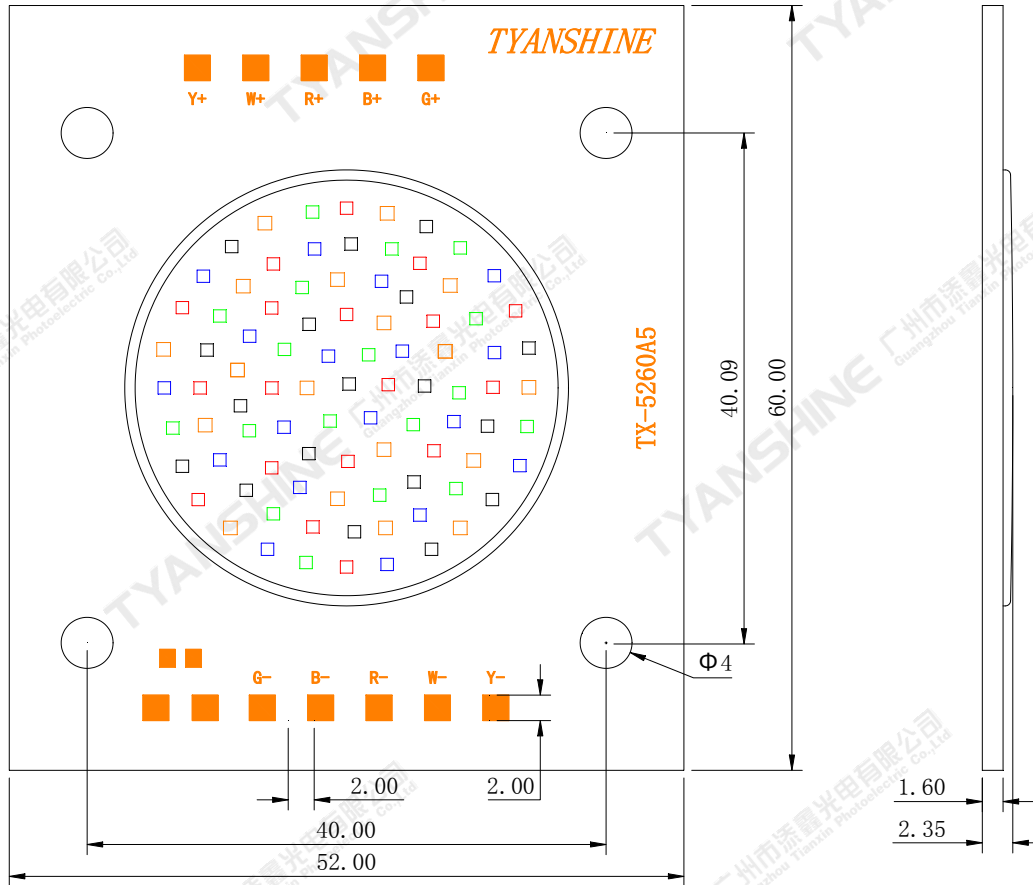
- ◆Red
- ◆Green
- ◆Blue
- ◆white
- ◆Yellow

### Applications:

- ◆Entertainment lighting
- ◆Landscape lighting
- ◆Commercial lighting
- ◆Decorative lighting

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**Package Dimensions:**



**Notes:**

- 1.All dimensions are in millimeters .
- 2.Tolerances unless otherwise mentioned are  $\pm 0.1\text{mm}$  .

**Absolute Maximum Ratings (Tc=25°C)**

Parameter	Symbol	Ratings	Unit	
Forward Current	IF	1.6	A	
Reverse Voltage	VR	Not designed for reverse operation	V	
Power Dissipation	PD	R	40	W
		G	39.6	
		B	39.6	
		W	54.4	
		Y	40.0	
Junction Temperature	Tj	R	115	°C
		G	150	
		B	150	
		W	150	
		Y	150	
Electrostatic Discharge Threshold (ESD)	ESD	2000	V	
Storage Temperature	Tstg	-20~+65	°C	
Operation Temperature	Topr	-40~+100		

**Notes:**

- Specifications are subject to change without notice.
- Under the stipulated Characteristics parameters above, the life span of the LED is more than 50,000hours.
- The data on this specification is for reference only and the actual data is in accordance with the acknowledgment.
- Precautions for ESD:  
STATIC SHIELD Electricity and surge damages the LED. It is recommended to use a wrist band or anti-electrostatic glove when handling the LED. All devices, equipment and machinery must be properly

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grounded.

**Electrical Optical Characteristics (Tc=25°C)**

Parameter	Symbol	Condition	Emitting Color	Min.	Typ.	Max.	Units
Luminous Flux	$\phi_v$	If=1.5A	R	1450	1700	1900	lm
			G	3100	3400	3700	
			B	680	750	850	
			W	3100	3400	3700	
			Y	1150	1400	1650	
Dominant Wavelength	$\lambda_d$		R	618	623	628	nm
			G	520	525	530	
			B	450	455	460	
			Y	588	593	598	
Correlated Colour Temperature	CCT		W	5500	6500	7500	K
Peak-emission Wavelength	$\lambda_p$		R	630	635	640	nm
			G	516	521	526	
			B	446	451	456	
			Y	593	598	603	
Spectral Line Half-Width	$\Delta\lambda$		R	15	20	25	nm
		G	25	30	35		
		B	15	20	25		
		W	15	20	25		
		Y	12	16	20		
Forward Voltage	$V_f$	R	21	23	25	V	
		G	27	29	31		
		B	27	29	31		
		W	30	32	34		
		Y	21	23	25		
Viewing Angle at 50% IV	$2\theta_{1/2}$	—	—	—	120	—	Deg
Thermal Resistance Junction to Case	$R_{\theta_{J-C}}$	If=1.5A	—	—	0.2	—	K/W
Temperature Coefficient of Voltage	$V\Delta F/T$		—	—	-2	—	mV/°C

**Notes:**

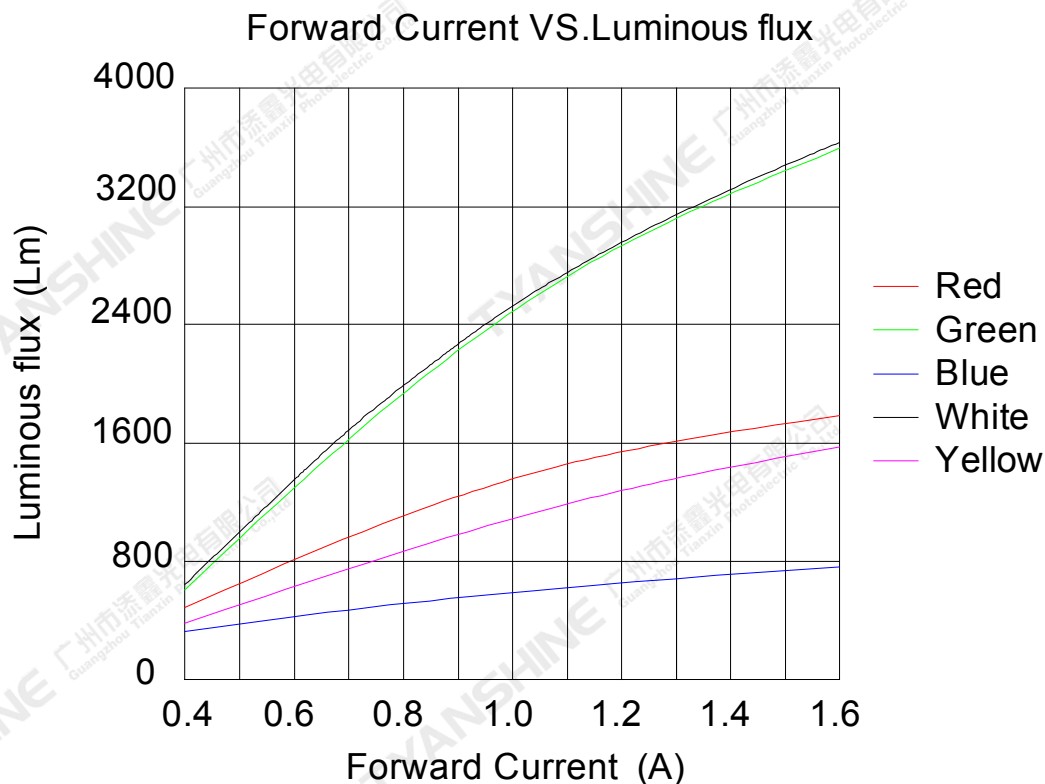
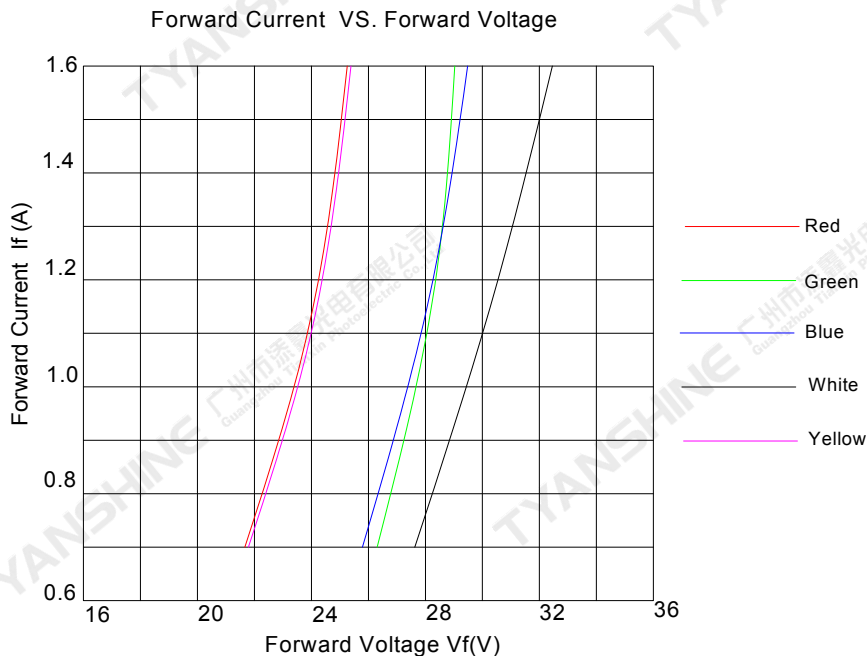
- Luminous intensity is measured with a light sensor and filter combination that approximates the CIE eye-response curve.
- $\theta_{1/2}$  is the off-axis angle at which the luminous intensity is half the axial luminous intensity.
- Luminous flux measurement tolerance:±15%.

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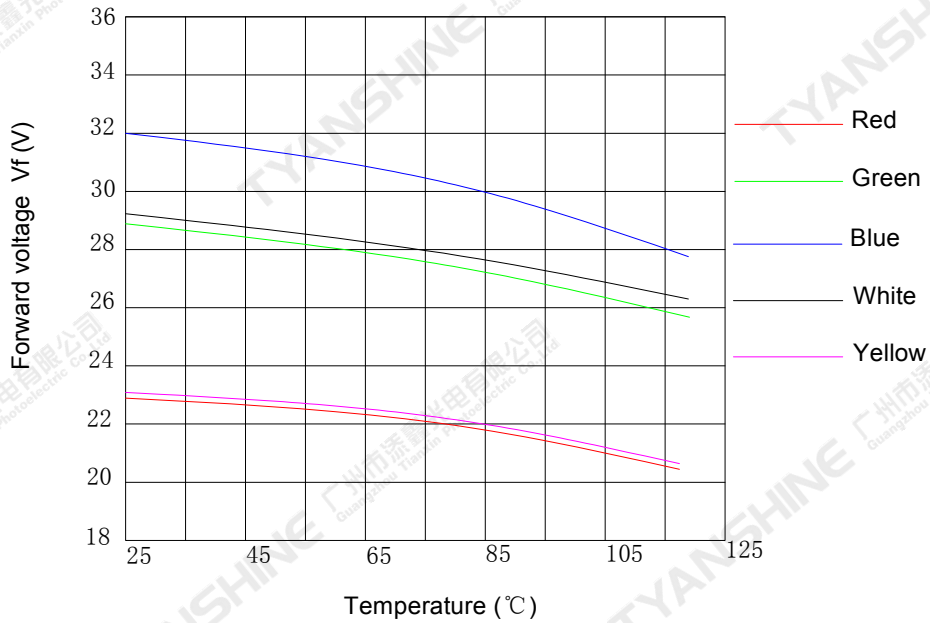
4.Forward voltage measurement tolerance:±0.15V.

### Typical Electrical/Optical Characteristics Curves

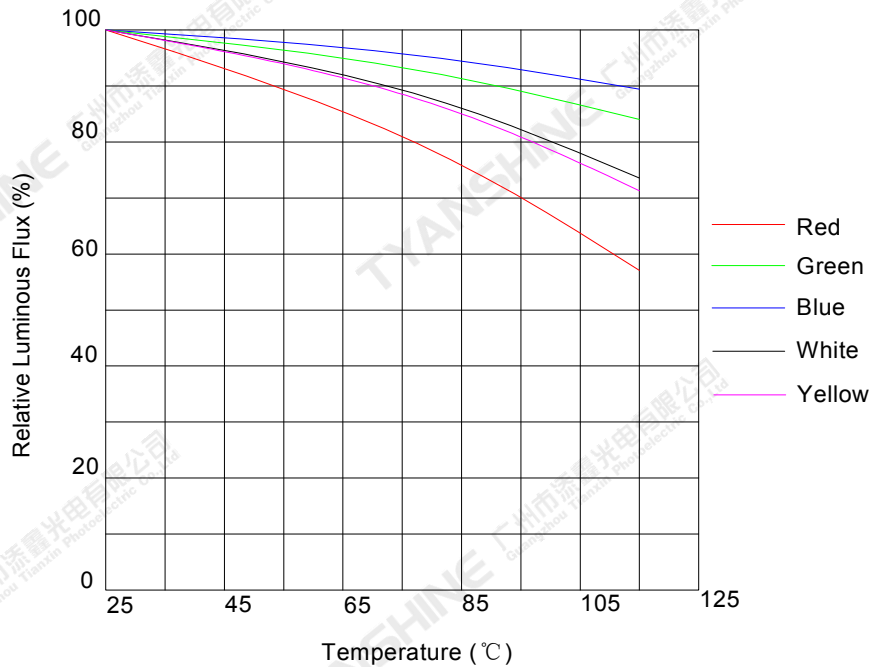
(25°C Ambient Temperature Unless Otherwise Noted)



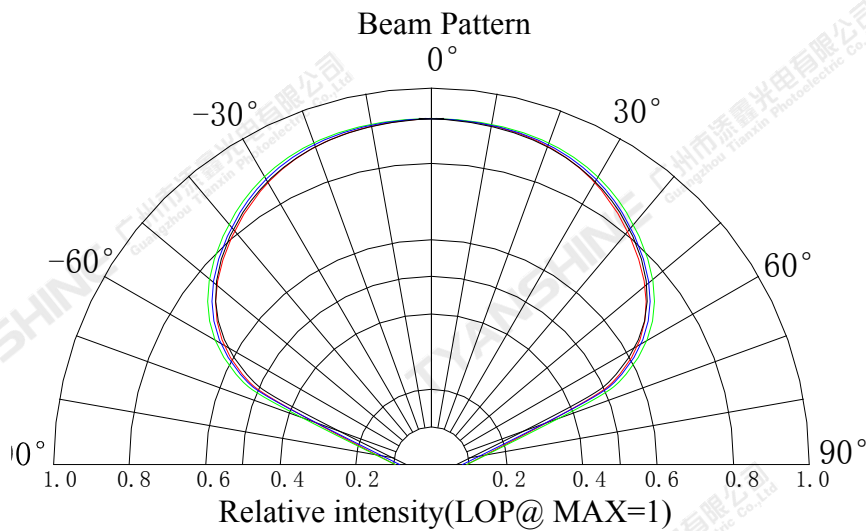
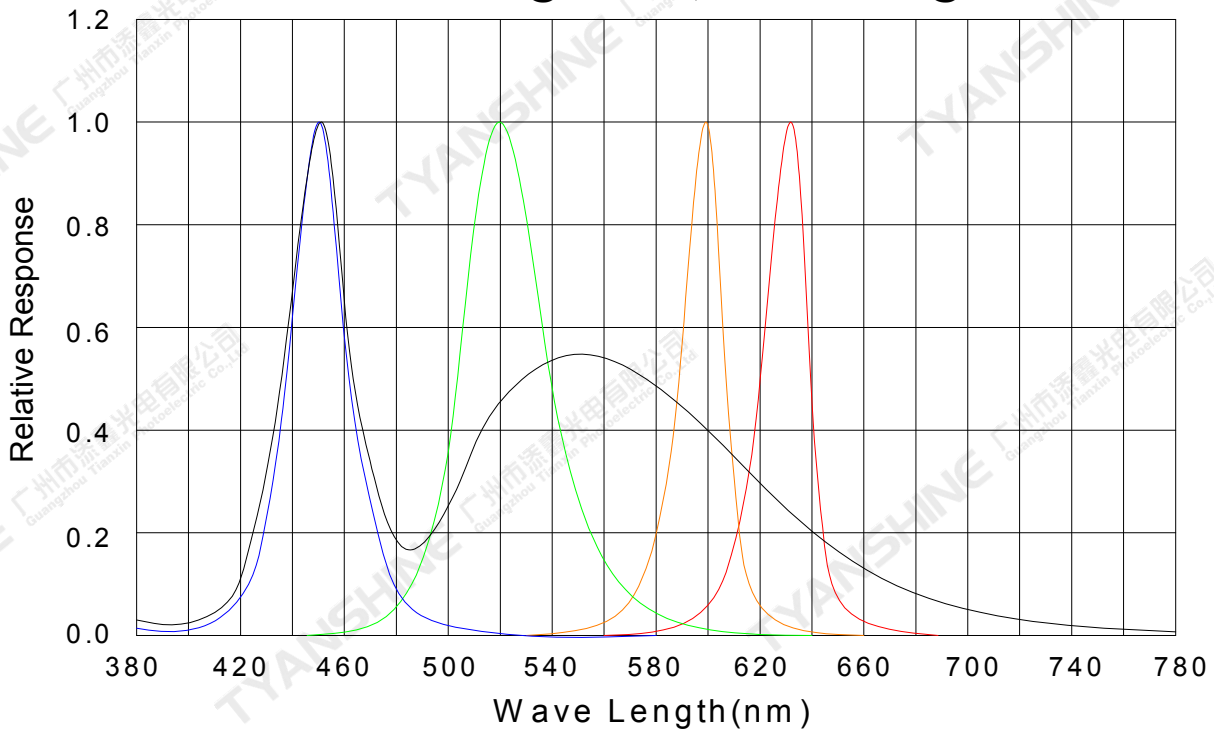
Temperature VS. Forward Voltage (IF=1.5A)



Temperature VS. Relative Luminous Flux (IF=1.5A)



Spectral Radiance: Red Peak@ 635nm;Green Peak@ 521nm  
Blue Peak@ 451nm;Yellow Peak@ 598nm



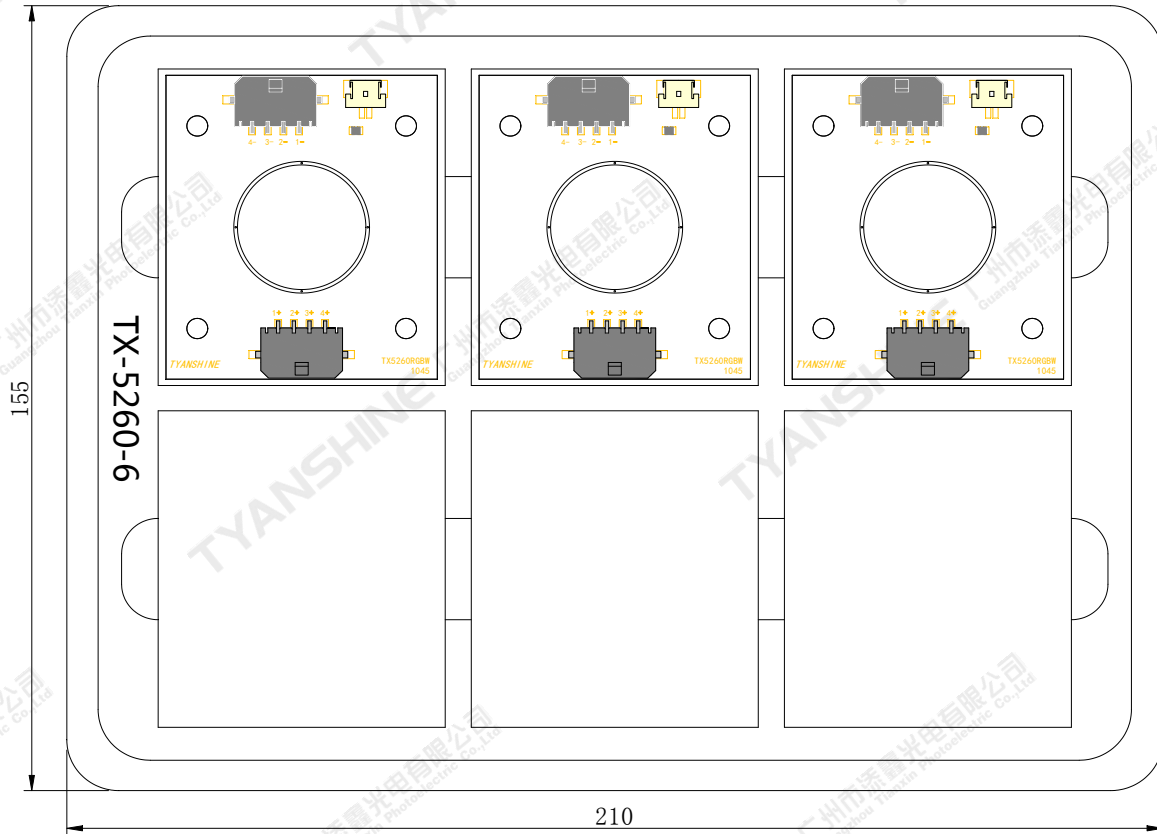
**Notes:**

1.  $2\theta_{1/2}$  is the off axis angle from lamp centerline where the luminous intensity is 1/2 of the peak value.
2. View angle tolerance is  $\pm 5^\circ$ .

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**Dimensions For Cannulation And Packaging**

**Quantity: 6PCS**



**Notes:**

1. All dimensions are in millimeters.
2. Tolerances are  $\pm 2.0$  mm unless otherwise noted.
3. The products are packaged together with silica gel, Transport, not to the weight of welding LED light-emitting area, As a result of the weight of LED light-emitting zone in the quality of, Irreponsible of the Company.

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